



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 6] नई दिल्ली, शनिवार, फरवरी 7, 1987 (माघ 18, 1908)
No. 6] NEW DELHI, SATURDAY, FEBRUARY 7, 1987 (MAGHA 18, 1908)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 7th February 1987

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1—447 GI/86

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CORRIGENDUM

(1)

In the Gazette of India Part III, Section 2 dated 29-11-1986 under the heading "PATENTS SEALED" delete 155703.

(2)

The design Nos. 156600 & 156601, in class 12 which was notified in the Gazette of India, Part III, Section 2 dated 22nd November, 1986 in column 2 page 754 should be read as "John Michael Pereira, an Indian Citizen, residing at Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. Baptist Road, Bandra, Bombay-400 050, Maharashtra, India. Filter holder for bidi and the like, February 7, 1986."

(3)

The design No. 156615 in class 12 which was notified in the Gazette of India, Part III, Section 2 dated 22nd November, 1986 in column 2, page 754 should be read as "John Michael Pereira, an Indian Citizen of Kripa Building, Flat No. 26B, Near Mt. Mary's Steps, St. Baptist Road, Bandra, Bombay-400 050, Maharashtra, India. Filter holder for cigarette and the like, February 7, 1986."

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

214, ACHARYA JAGADISH BOSE ROAD
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 1st January 1987

- 1/Cal/87. Dansk Industri Syndikat A/S. A moulding system for making mould parts.
- 2/Cal/87. The Babcock & Wilcox Company. A pneumatic servo assembly for an electro-pneumatic control system.

[Divisional dated 22nd February, 1984].

- 3/Cal/87. Societe chimique Des Charbonnages S.A. A process for the preparation of crosslinked polymeric compositions of ethylene and of at least one α -olefine-1.

[Divisional dated 2nd June, 1983].

- 4/Cal/87. Societe Chimique Des Charbonnages S.A. A process for the preparation of crosslinked polymeric composition of ethylene and of at least one α -olefine-2.

[Divisional dated 2nd June, 1983].

- 5/Cal/87. 1. Hitachi Ltd., 2. Hitachi Engineering Co. Ltd. A method and an apparatus for achieving masterless serial bus occupation control.

- 6/Cal/87. E. I. Du Pont De Nemours And Company. Liquid phase adsorption and oxidation of ferric chloride using a eutectic salt complex.

- 7/Cal/87. Volgo-Uralsky Nauchno-Issledovatel'sky I Proektny Institut Po Dobychke I Pererabotke Serovodorod-Soderzhaschikh Gazov (Volgouralnipigaz). Method for biological purification of sewage from ethylene glycol.

- 8/Cal/87. Voest-Alpine Aktiengesellschaft. Movable trestle.

The 2nd January 1987

- 9/Cal/87. Narendra Kumar Sharma. Improved automatic AC voltage stabilizer.

- 10/Cal/87. Westinghouse Electric Corporation. Improvements in or relating to diagnostic apparatus for an electric generator seal oil system.

- 11/Cal/87. Robin Ira Nath Dutt. A pilfer proof cabinet.

The 5th January 1987

- 12/Cal/87. Ausminter Corp. Limited, Magnesium cement. (7th January, 1986) Australia.

- 13/Cal/87. Westinghouse Electric Corporation. Improvements in or relating to cogeneration system and method for producing coke, and electric power from steam.

- 14/Cal/87. Klein, Schanzlin & Becker Aktiengesellschaft. A butterfly valve.

The 6th January 1987

- 15/Cal/87. Thomas Arthur Gilbertson. Installations for thermal storage using ice. [Divisional dated 21st August, 1984].

- 16/Cal/87. Hans Spelten. Structural bar.

- 17/Cal/87. Hoechst Aktiengesellschaft. Process for the preparation of water-soluble phthalocyanine dye-stuffs.

- 18/Cal/87. Plant Genetics, Inc. Desiccated analogs of botanic seed.

The 7th January 1987

- 19/Cal/87. Voest-Alpine Aktiengesellschaft. Trestle being displaceable on caterpillars.

- 20/Cal/87. Kone Elevator GmbH. Procedure and apparatus for switching thyristor bridges in static alternating current/direct current conversion.

- 21/Cal/87. Kone Elevator GmbH. Lift battery control system.

- 22/Cal/87. Kone Elevator GmbH. Speed control system for a motor with short-circuited rotor.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH
MUNICIPAL MARKET BUILDING, IIIrd. FLOOR
KAROL BAGH, NEW DELHI-5

The 8th December 1986

- 1073/Del/86. Varian Associates, Inc., "Stabilized microwave power amplifier system". [Divisional date 8th March, 1984].

- 1074/Del/86. Exxon chemical patents, Inc., "New polymerization catalyst".

- 1075/Del/86. STC PLC., "3-Level line transmission code". (convention date 16th January, 1986, U.K.).

- 1076/Del/86. Cement Research Institute of India, "A cyclone separator for cleansing of a gaseous stream". [Divisional date 25th January, 1984].

The 9th December 1986

- 1077/Del/86. Pfizer Inc., "A process for preparing a 2-oxindole-1-carboxamide compounds".

[Divisional date 8th April, 1985].

- 1078/Del/86. Erno Raumfahrttechnik GmbH. "Fuel collection in surface tension fuel tanks".

- 1079/Del/86. Principia Recherche Development S.A., "Wave generator".

- 1080/Del/86. The Gillette Company, "A razor assembly".

1081/Del/86. Stein Industrie, "A rotatory cylindrical pulverizer for preparing two different qualities of pulverized material".

1082/Del/86. Armstrong World Industries, Inc., "Ornamented tile surface covering and process for making same".

The 10th December 1986

1083/Del/86. Eicher Goodearth Limited, "Flywheel mounted generator".

1084/Del/86. Council of Scientific and Industrial Research, "A mould for the production of precast concrete components for construction of roads and other riding surfaces".

1085/Del/86. Council of Scientific and Industrial Research, "A process for the isolation of a new highly specific sialic acid binding lectin (Achatinin) from Achatina fulica sanail".

1086/Del/86. Council of Scientific and Industrial Research, "An improved process for the preparation of arylacetic acids".

1087/Del/86. Council of Scientific and Industrial Research, "Theft alarm system".

1088/Del/86. Australian design marketing Pty. Ltd., "Press forming sheet metal". (Convention date 12th December, 1985, Australia).

1089/Del/86. Bharat Heavy Electricals Limited, "A process for the enhancement of the efficiency of the screen printed solar cells through a plasma etching process".

1090/Del/86. Bharat Heavy Electricals Limited, "A process for encapsulation of photovoltaic module".

The 11th December 1986

1091/Del/86. Tata energy research Institute, "An improved space heater and method of making the same".

1092/Del/86. Council of Scientific and Industrial Research, "A process for the preparation of low molecular weight xyalanase from chainia strain".

1093/Del/86. Bal Krishan Gupta, "Cylinder valve tester".

The 12th December 1986

1094/Del/86. PPG Industries Inc., "Durable sputtered films of metal alloy oxides".

1095/Del/86. Steel Authority of India Ltd., "Ceramic fibre sealing system of soaking pits in integrated steel plants".

The 15th December 1986

1096/Del/86. UOP Inc., "Method and apparatus for regeneration of hydrocarbon conversion catalyst".

1097/Del/86. UOP Inc., "Process for separating isomers of toluenediamine".

1098/Del/86. Steel Authority of India Ltd., "Improved alumina-carbon ramming mass used in the trough and the runner lining of the blast furnaces".

1099/Del/86. Steel Authority of India Ltd., "Gunning composition or mix used for hot repairing of the metallurgical furnaces (Radgun-ohm-80).

1100/Del/86. American Colloid Company, "Process for acid treating clay for improved filtration".

The 16th December 1986

1101/Del/86. Council of Scientific and Industrial Research, "Improvement in or relating to making of high quality steel directly from ore fines and non coking fines".

1102/Del/86. Council of Scientific and Industrial Research, "An improved process for the manufacture of hydroxycitronellal from citronellal".

1103/Del/86. Steel Authority of India Ltd., "Process for the production of pitch bonded-dolomite block by hot pressing for bof lining".

1104/Del/86. Morton Thiokol Inc., "Process and apparatus for the production of sodium hydrosulfite". (Convention date 3rd January, 1986 & 30th July, 1986, U.K.).

1105/Del/86. Scapa-Porritt Limited, "Improvements to papermachine and like fabrics" (Convention date 21st December, 1985, U.K.).

1106/Del/86. White Consolidated Industries, Inc., "High temperature balanced valve trim".

1107/Del/86. Centre Stephanols De Recherches Mecaniques Hydro-Mecanique Et Frottement, "A process for the preparation of a thin polycrystalline layer of a metal on a substrate and so produced a metal layer".

The 17th December 1986

1108/Del/86. Societe Chimique Des Charbonnages, "Ethylene polymer compositions, a process for preparing them and their application to the production of industrial items".

1109/Del/86. Gordon L. Williams, "Microbial fertilizer and soil conditioner".

1110/Del/86. Exxon Research and Engineering Company, "Extraction of hydro-carbon oils using a combination polar extraction solvent-aliphatic-aromatic or polar extraction solvent-polar substituted naphthenes extraction solvent mixture".

1111/Del/86. The Lubrizol Corporation, "Functional fluid with borated expoxides, carboxylic solubilizers, zinc salts, and calcium complexes".

1112/Del/86. The Lubrizol Corporation, "Novel carbamate additives for functional fluids".

1113/Del/86. Sambasivan Venkateswaran and others, "A process for preparing novel halogen".

1114/Del/86. Sambasivan Venkateswaran and others, "A process for preparing novel halogen".

The 18th December 1986

1115/Del/86. The Babcock & Wilcox Company, "Thermally bonded fibrous product".

1116/Del/86. The Jay Engineering Works Limited, "A down rod or shaft for electric ceiling fans".

The 19th December 1986

1117/Del/86. Warner-Lambert Company, "A process for the injection molding of shaped articles. [Divisional date 2nd February, 1984].

1118/Del/86. The Printers House Private Limited, "An improved printing machines".

APPLICATION FOR PATENTS FILING AT FOR
PATENT OFFICE BRANCH
61, WALLAJAH ROAD, MADRAS-600 002

The 22nd December 1986

- 999/Mas/86. Airsensors, Inc., System for controlling mass flow rates of two Gases.
- 1000/Mas/86. Monsanto Company, Composition of Imparting Fire-Resistance to Laminating Interlayers.
- 1001/Mas/86. Monsanto Company, Fire-Resistant Composition.
- 1002/Mas/86. Monsanto Company, Fire-Resistant Interlayer.
- 1003/Mas/86. Nagaoka Kanaami Kabushiki Kaisha, Double Cylinder Screen.

The 23rd December 1986

- 1004/Mas/86. Jasmond Pty. Ltd., Adaptive Switching Circuit.
- 1005/Mas/86. Owens-Illinois, Inc., Liquid Containing and Dispensing Package.
- 1006/Mas/86. Ardis R. Lavender, System, Apparatus and Method of Continuously Fractionating Blood in a Situ.
- 1007/Mas/86. Magneti Marelli S.P.A., "Starter Device for internal combustion engines for motor vehicles".
- 1008/Mas/86. Peter Larws, "Base Element for the Production of Panels for a Toy Construction System".

The 24th December 1986

- 1009/Mas/86. BBC Brown, Boveri and Company Limited, Method for data transmission via an electric distribution system and transmission system for carrying out the method.
- 1010/Mas/86. Henkel Kommanditgesellschaft Auf Aktien, Sulfited fats.
- 1011/Mas/86. Sven-Erik Nielsen, Biological nitrogen fixation in non-Legumes.
- 1012/Mas/86. National Starch and Chemical Corporation, Inverse Emulsions.
- 1013/Mas/86. FMC Corporation, Bottom Seal Bag Making Machine.

The 26th December 1986

- 1014/Mas/86. Owens-Illinois, Inc., Tamper Indicating Package.
- 1015/Mas/86. SMS Schloemann-Siemage Aktiengesellschaft, Mould for Continuous Casting of Steel Strip.
- 1016/Mas/86. Merlin Cerin, Solid-State Trip Device with Test Circuit for an Electrical Circuit Breaker.

ALTERATION OF DATE

158847. Ante dated to 24th June, 1975.
(1775/Cal/77)
158857. Ante dated to 17th September, 1979.
(284/Del/83)
158858. Ante dated to 17th September, 1979.
(285/Del/83)
158877. Ante dated to 9th April, 1981.
(329/Del/82)

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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CLASS : 33-D.

158847

Int. Cl. : B 22 d 13/02, 13/10.

A CENTRIFUGAL CASTING MACHINE.

Applicant : PONT-A-MOUSON S.A., AT 91, AVENUE DE LA LIBERATION, 54 NANCY FRANCE.

Inventor : I. MICHEL PIERREL.

Application No. 1775/Cal/77 filed December 27, 1977.

Division of Application No. 1248/Cal/75 dated 24th June, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A centrifugal casting machine for the manufacture of spheroidal graphite cast iron pipes which comprises a rotary casting mould, an elongated pouring channel having a pouring mouth at an end thereof for pouring metal into the mould, means for moving the mould axially relative to the channel, means for dropping granular particles onto the molten metal which has been poured onto the mould surface by said channel and comprising a hopper-like box for receiving the granular particles and secured to a lateral side of the pouring channel adjacent the pouring mouth, the box having an open top side opening the interior of the box to atmosphere through which open top side the particles are intended to be placed in the box, the box having in a lower part of the box controllable aperture means through which metered amounts of said granular particles may be dropped substantially continuously, and mechanical means associated with said controllable aperture means for controlling said controllable aperture means, said aperture means extending longitudinally of the channel from a first end of the aperture means to a second end of the aperture means which is located beyond the pouring mouth whereby to ensure that the granular particles dropped through the aperture means drop onto the metal poured onto the mould surface, the box extending a minor fraction of the channel length and terminating substantially in the region of said first end of the aperture means.

Compl. Specn. 20 pages.

Drg. 5 sheets.

CLASS : 52-A; 114-D.

158848

Int. Cl. : B 26 d 1/00.

IMPROVED SLITTING MACHINE FOR LEATHER, HIDES AND LIKE MATERIALS.

Applicant : MERCIER FRERES, QUARTIER DE CHAMPGURIN, RUE DANIEL MERCIER, 07100 ANNONAY, FRANCE.

Inventors : 1. GEORGES MERCIER, 2. JACQUES MERCIER, 3. PIERRE BUISSON.

Application No. 1016/Cal/81 filed September 9, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

An improved slitting machine, more particularly for hides and leather, unwoven textile products, rubber materials, plastics in plates, comprising mainly a bearing structure or framework (1d-1g), a working plane or working table (10) for presenting the materials or products to the slitting process, a driving device for said products or materials by means of two cylinders (5-7) mounted in front of a cutting blade (25) one of which (5) is placed above and the other one (7) beneath the plane of the tensioned side of the said endless cutting blade supported by two flywheels (3d-23g) one of which at least is motive and tensioning, the spacing between the cylinders (5-7) being adjustable, a sharpening system constituted by two grinding wheels (36a-36b) each one of which is acting on one of the two bevelled faces (39-40) forming at the intersection thereof the cutting edge of the blade, said machine being characterized in that the bearing structure thereof is designed to divide the organs of said machine in two distinct assemblies, namely : a fixed assembly carrying the devices for presenting (10), for positioning and driving (5-7) the products, disposed on either side of the cutting line and adjusting distinctly and separately with respect to this cutting line constituted by the cutting edge of the tensioned upper side of an endless blade (25); an assembly which is mobile within the horizontal plane relative to the fixed assembly and includes a bench (13) for the support of the blade, provided with all the means for guiding, positioning, driving and sharpening his blade, the cutting edge of which formed at the intersection of two sharpened bevelled faces (39-40) has an immutable position within the horizontal plane relative to the bench; said mobile assembly being movable relative to the fixed assembly of the structure to modify the spacing between the driving plane which is the imaginary plane passing through the axes of the driving cylinder (5) and of the cylinder with elements (7) supported by the mobile assembly, and the cutting edge of the blade positioned in an immutable manner within the horizontal plane relative to the mobile part.

Compl. Specn. 33 pages.

Drg. 8 sheets.

CLASS : 7-B.

158849

Int. Cl. : C 06 b 19/00.

SENSITIVE LOW-WATER EMULSION EXPLOSIVE COMPOSITIONS.

Applicant : ATLAS POWDER COMPANY, 12700 PARK CENTRAL PLACE DALLAS, TEXAS 75251, U.S.A.

Inventors : 1. CHARLES GARY WADE, 2. HAROLD THEODORE FILLMAN

Application No. 1147/Cal/81 filed October 17, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims

A water-in-oil explosive emulsion composition having a 1/2 cartridge gap sensitive of at least three inches formed from an emulsion matrix as herein described having from 4% to less than 10% by weight water.

Compl. Specn. 16 pages.

Drg. Nil.

CLASS : 172-D.

158850

Int. Cl. : D 01 h 7/00.

TENSION ROLLERS FOR TANGENTIAL-BELT DRIVES FOR SPINDLES OF SPINNING-AND TWISTING FRAMES.

Applicant : SKF KUGELLAGERFA BRIKEN GMBH, ERNST-SACHS STRASSE 2-8, D-8720 SCHEWEINFURT 2, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. FRIEDER PROBST, 2. RAINER LIEB-ETANZ, 3. PETER BLOCH, 4. HELMUT SPEISER.

Application No. 92/Cal/82 filed January 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Tension rollers for tangential-belt drive for spindles of spinning-and-twisting frames comprising a holder consisting of elastic material and fixed in its central region on the said frame, the free ends of the said holder being fitted each with one angle-shaped supporting piece on which is mounted through a taper bore a tension roller urging the tangential belt against the spindles, characterized by that the limbs (9a) of the said supporting pieces (9) project from the holder (8) in the longitudinal direction and outwardly of the said holder (8), the tension roller (5) mounted on these outwardly projecting limbs are so arranged and made of such dimension that they remain projected outwardly of the holder (8) on both sides.

Compl. Specn. 11 pages.

Drg. 2 sheets.

CLASS : 33-D; 108-B₂(b).

158851

Int. Cl. C 21 c 1/10.

PROCESS FOR PRODUCING CAST IRON CASTINGS WITH A VERMICULAR GRAPHITE STRUCTURE AND AN APPARATUS FOR PERFORMING THE PROCESS.

Applicant : GEORG FISCHER AKTIENGESELLSCHAFT, OF CH-8201 SCHAFFHAUSEN, SWITZERLAND.

Inventors : 1. REINHOLD LINKERT, 2. EMIL BECKER, 3. HORST HOFFMANN.

Application No. 281/Cal/82 filed March 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Process for producing cast iron castings with a vermicular graphite structure in a converter, characterized in that an initial melt with a surplus content up to 3 percent is being desulphurized by means of a treatment by pure magnesium and is being alloyed with magnesium, and that the proportion of magnesium to sulphur is so adjusted, that it lies in the range from 0.8 to 2.5.

Compl. Specn. 7 pages.

Drg. Nil.

CLASS : 131-A₂.

158852

Int. Cl. E 21 b 7/00.

DEVICE FOR INCREASING THE TEMPERATURE OF A GEOLOGICAL FORMATION TRAVERSED BY A BORE HOLE.

Applicant : INSTITUT FRANCAIS DU PETROLE, 4, AVENUE DE BOIS PREAU 92502 RUEIL MALMAISON, FRANCE.

Inventors : 1. CLAUDE GADELLE, 2. ANDRE PAUC,
3. JACQUES BURGER, 4. JACQUES MARRAST.

Application No. 418/Cal/82 filed April 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A device for increasing the temperature of a geological formation traversed by a bore hole (2), this device involving means (4) for injecting a fluid heat carrier in the geological formation (1) and means (5) for heating this fluid, comprising at least one heating element (13-15) electrically connected to a source of electric current (6), characterized in that it comprises a pipe (3) connected to the heat carrier injection means (4) and to the free end of which is secured a tubular body (8) whose bore communicates with pipe (3) and wherein is located the heating element (13-15).

Compl. Specn. 9 pages.

Drg. 2 sheets.

CLASS : 85-J.

158853

Int. Cl. F 27 d 15/00.

TOP SUPPORTED FURNACE FOR COAL-FIRED STEAM GENERATOR IN WHICH COAL OR OTHER ASH-BEARING FUEL IS BURNED.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD FRANCIS MOORE.

Application No. 1096/Cal/82 filed September 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A top-supported furnace 10 for coal-fired steam generator in which coal or other ash-bearing fuel is burned, opening means 12 in the furnace bottom, a bottom supported water tank 16 opened at its upper end and containing water positioned beneath the furnace opening means, into which the ash from the furnace falls, means for removing the ash from the tank, a water-filled trough 26 supported from the bottom independently of the tank, said trough positioned intermediate the furnace bottom and the tank, plate means 24 secured to the furnace bottom extending down into the water in the trough 26, which plate means completely surround the open upper end of the tank, seal means between the trough and tank which completely surround the open upper end of the tank, and adjustable means for moving the seal means into and out of tight sealing engagement between the trough 26 and tank 16.

Compl. Specn. 5 pages.

Drg. 2 sheets.

CLASS : 32-A.

158854

Int. Cl. : C 09 b 47/04, 62/00.

PROCESS FOR THE PREPARATION OF WATER-SOLUBLE FIBRE-REACTIVE PHTHALOCYANINE COMPOUNDS.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

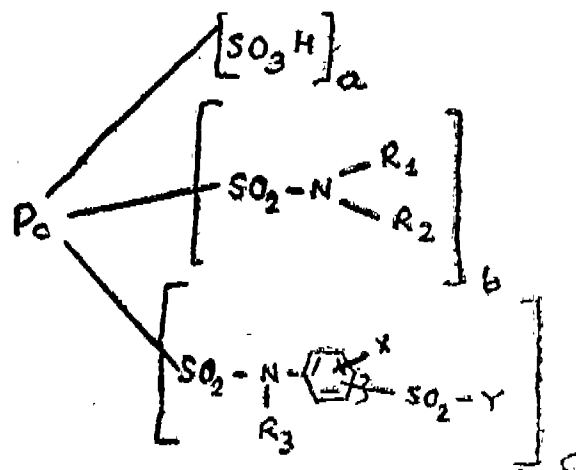
Inventors : 1. PETER MISCHKE, 2. HERMANN FUCHS.

Application No. 1099/Cal/82 filed September 23, 1982.

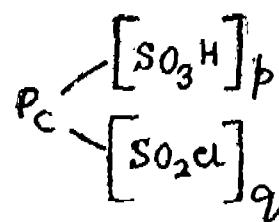
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for preparing a water-soluble fibre-reactive phthalocyanine compound of the formula (1) of the following drawings

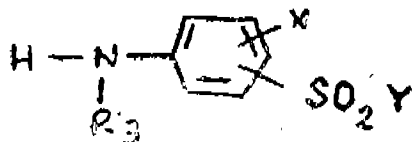


in which Pc denotes the radical of metal-free or metal-containing phthalocyanine, with the sulfonic acid or sulfonamide groups being bonded in the 3-positions of the aromatic rings of the phthalocyanine R_1 and R_2 each denotes a hydrogen atom or an alkyl group of 1-6 carbon atoms and which can be substituted by methoxy, ethoxy, propoxy, C_6H_5 , $O-C_2H_4-O$, cyano, acetyl amino, carboxyl, $HO-S$, H_3O_3P , phenyl, methylphenyl, methoxyphenyl, dimethyl-amino, diethylamino, β -hydroxyethylamino, β -hydroxyethoxy, N-phenylureido, N-alkyl C_1-C_4 ureido or N-cyloalkylureido groups, or an allyl, 2-methylallyl, crotyl or cycloalkyl group, and R_1 and R_2 together with the nitrogen atom, can represent the radical of a heterocyclic saturated or unsaturated ring, or R_1 and R_2 represent a phenyl radical which can be substituted by methyl, ethyl, methoxy, ethoxy, carboxyl or sulfonic acid groups, and R_1 and R_2 can in each case be identical or different, R_3 denotes a hydrogen atom or alkyl group of 1 to 4 carbon atoms and which can be substituted by hydroxyl or carboxyl groups, X represents a hydrogen atom or an alkyl or alkoxy group of 1 to 4 carbon atoms, Y represents the vinyl group or the grouping of the formula $-CH_2-CH_2-Z$ in which Z denotes an inorganic or organic radical which can be eliminated under alkaline conditions, "a" represents a number between 0 and 2, "b" represents a number > 0 but ≤ 2 and "c" represents a number between 1, 7 and 2, 6 "a" and "b" being either integer or non-integer with the proviso that the sum of "a", "b" and "c" is at most 4, wherein a phthalocyaninesulfochloride of the formula (2)

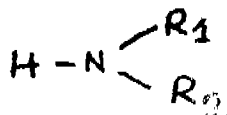


in which Pc denotes the radical of metal-free or metal-containing phthalocyanine, "p" denotes a number from 0 to 1, and "q" denotes a number from 2 to 4 with the proviso

that the sum of p and q is at most 4, is reacted in an aqueous medium with a mixture of an amine of the formula (3).



in which R_3 , X and Y are defined as above, in the form of a concentrated aqueous solution or suspension of 1.5 to 3 moles of the compound per litre of water, and amine of the general formula (4)



in which R_1 and R_2 are defined as above, at pH value of 3 to 7 and at a temperature of 0°C to 30°C in the presence of an acid-binding agent.

Compl. Specn. 24 pages.

Drg. 2 sheets.

CLASS : 70-B.

158855

Int. Cl. : B 01 k 3/00.

FLOATING CATHODE ELEMENT DEVICE INTENDED FOR THE PRODUCTION OF ALUMINIUM BY ELECTROLYSIS.

Applicant : ALUMINIUM PECHINEY, 28, RUE DE BONNEL 69003 LYON, FRANCE.

Inventors : 1. MAURICE KEINBORG, 2. PHILIPPE VARIN, 3. YVES BERTAUD, 4. MICHEL LEROY.

Application No. 1410/Cal/82 filed December 6, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A floating cathode element device intended for the electrolytic production of aluminium using the Hall-Heroult process in an electrolysis tank comprising a molten cryolite-base bath, between a carbon anode, and a cathodic layer of molten aluminium, characterised in that it comprises at least one active cathode element which is formed of electrically conductive refractory material such as titanium diboride, supported by an intermediate support which is inert with respect to liquid aluminium and the electrolyte, the mean relative density of the active cathode element and intermediate inert support assembly being lower than the relative density of the liquid aluminium under the normal conditions of operation of the electrolysis tank and further said cathode element is in combination with an anchoring and abutment means for limiting the amplitude of movements thereof in a vertical direction and guide means for limiting the amplitude of movements thereof in directions other than a vertical direction.

Compl. Specn. 18 pages.

Drg. 4 sheets.

CLASS : 116-G.

158856

Int. Cl. : E 02 f 3/60, 3/64.

BRIDGE SCRAPER FOR DIRECT MATERIAL FEEDING.

Applicant : F. L. SMIDT & CO. A/S. OF 77 VIGERSLEV ALLE, DK-2500 VALBY COPENHAGEN, DENMARK.

Inventor : I. TORKIL DEIGAARD JENSEN.

Application No. 1411/Cal/82 filed December 6, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A bridge scraper for direct material feeding from a storage heap, the scraper having a raking device positioned at one end face of the heap, the device being mounted on a carriage on a bridge perpendicular to the centre line of the storage heap and being moved into the storage heap and to and fro along the base line of the end face of the heap by means of a drive unit; a scraper chain extending parallel to the bridge, for raking material onto a belt conveyor, the speed of the conveyor being coupled with that of the bridge drive unit, the scraper chain and the carriage; and a belt weigher at the outlet end of the conveyor which controls the speed of the belt and consequently that of the other elements of the bridge scraper so as to discharge a constant amount of material per unit time, characterized in that on the bridge and travelling with it is mounted a measuring device which measures continuously the degree of filling of the belt immediately after the point at which it receives the material from the scraper chain, a signal from the measuring device controlling the relationship between the speed of the bridge and that of the scraper chain, carriage and belt conveyor so that the relative travelling speed of the bridge increases when the belt filling rate drops below a set value, and decreases when the belt filling rate exceeds the set value.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 33 D & 195 B D.

158857

Int. Cl. : B22d—37/00.

"REPLACEABLE PLATE ELEMENT FOR USE IN A VALVE FOR CONTROLLING THE FLOW OF LIQUID METAL FROM A TEEMING VESSEL".

Applicant : USS ENGINEERS AND CONSULTANTS, INC., a corporation of the State of Delaware, U.S.A., doing business at 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.

Inventors : EARL PAGE SHAPLAND & PATRICK DANALEING.

Application for Patent No. 284/Del/1983 filed on 5th May, 1983.

Divisional to Patent No. 655/Del/1979 dated 17th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A replaceable plate element for use in a valve for controlling the flow of liquid metal from a teeming vessel, comprising a generally flat body of refractory material having oppositely facing, parallel surfaces and an opening extending axially through said body for receiving and mounting a porous plug, said opening comprising three axially spaced, concentric wall portions, each being formed of progressively greater diameters from end-to-end thereof mounting a porous plug, said opening comprising three axially spaced, concentric portions with the axially endmost portions conforming with and being attached to the axially endmost portions of said plate opening and the intermediate portion of said plug being of a diameter less than that of the intermediate plate opening wall portion for co-operating therewith to define an annular passage around said plug.

Compl. Specn. 23 pages.

Drg. 7 sheets.

CLASS : 33 D & 195 B.

158858

Int. Cl. : B22d—37/00.

"VALVE FOR CONTROLLING THE FLOW OF LIQUID METAL FROM THE POUR OPENING OF A TEEMING VESSEL".

Applicant : USS ENGINEERS AND CONSULTANTS, INC., a corporation of the State of Delaware, U.S.A., doing business at 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.

Inventors : EARL PAGE SHAPLAND & PATRICK DANA KING.

Application for Patent No. 285/Del/1983 filed on 5th May, 1983.

Divisional to Patent No. 655/Del/1979 dated 17th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A valve for controlling the flow of liquid metal from the pour opening of a teeming vessel, comprising a frame for connection to said vessel and having a hollow interior, opposed gate supporting rails mounted in said frame for slidably supporting refractory gates for sequential movement through said frame along a path of travel having gate loading, operating and discharge sections, each of said refractory gates having an orifice through which liquid metal may pass when the refractory gate orifice underlies said vessel pour opening, a first motor attached to said frame and operative to move refractory gates sequentially along said rails, and a second motor operable independently of said first motor, said second motor being connected to said gate supporting rails to move said rails and a said gate transversely of said path of travel to vary the relationship of said gate orifice with said vessel pour opening between a position of coaxial alignment therewith and a position out of alignment therewith, the frame having a lateral opening communicating with the gate loading section for lateral insertion of the gates, the rail adjacent to said lateral opening being shorter than the rail opposite said lateral opening by an amount sufficient to allow lateral insertion of said gates through said opening, said rail opposite said lateral opening extending substantially the length of all three of said frame section and said rail opposite said lateral opening including magnets installed therein for retaining a said gate thereon in the loading section of said frame.

Compl. Specn. 22 pages.

Drg. 7. sheets.

CLASS : 99 G.

158859

Int. Cl. B 65 d—47/06.

"CONTAINER CLOSURE."

Applicant(s) : AMERICAN FLANGE & MANUFACTURING CO., INC., of 1100 West Blancke Street, Linden, New Jersey 07036, U.S.A., a company organised under the laws of New Jersey, United States of America.

Inventor(s) : HUGO MUELLER, DAVIS B. DWINELL, and JERIMAH J. LAURIZIC.

Application for Patent No. 312/Del/1983 filed on 13th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims

A container closure comprising a nestable synthetic plastic pouring spout having an annular sealing channel peripherially disposed at one end, a relatively flexible outer wall extending downwardly from said sealing channel, a relatively rigid spout inner wall connected to the lowermost end of said spout outer wall and concentrically nested herewithin with said spout (1) in its stored or nested position, said spout inner wall terminating in an uppermost free end;

cap engaging means formed on said spout inner wall, a sealing membrane closing off said spout inner wall, an annular metal crumpling ring overlying said spout sealing channel and a plastic cap having a top wall and a depending peripheral skirt in engagement with said spout wherein said closure includes an anti-surge pouring vent member secured to the sealing channel and at least partially closely circumferentially surrounding said pouring spout outer wall, said vent member substantially conforming to the contour of said spout outer wall (10) in the nested position so that the vertical profile of said nested spout is generally unchanged by the presence of said pouring vent member

Compl. Specn. 12 pages.

Drg. 2 sheets.

CLASS : 10, F [XXXIX(2)].

158860

Int. Cl. : F 42b 31/00.

"DRIVE ELEMENT FOR A SUB-CALIBRE SPINNING PROJECTILE".

Applicant(s) : AKTIEBOLAGET BOFORS, a joint-stock company of Sweden, organized under the laws of Sweden and of Swedish nationality of S-691 80 Bofors, Sweden.

Inventor(s) : ARNE WIKSTROM.

Application for Patent No. 339/Del/1983 filed on 23rd May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

Drive element for a sub-calibre spinning projectile comprising a sabot member connected to the rear part of the projectile and a guiding sleeve connected to said sabot member as well as the projectile characterized in that the guiding sleeve is substantially cylindrical and of full calibre and provided with an external driving band made directly in the sleeve material and internal, threads engaging corresponding external threads of the sabot member; the forward end surface of the sabot member provided with a central, axial hollow chamber for the rear part of the projectile, which hollow chamber is provided with a plurality of axially protruding locking pins engaging corresponding recesses in the outer cylindrical surface of the projectile for securing the projectile to the sabot member.

Compl. Specn. 10 pages.

Drg. 2 sheets.

CLASS : 88 D.

158861

Int. Cl. : C 10 j 3/00.

"METHOD AND APPARATUS FOR PRODUCING SYNTHESIS GAS".

Applicant : KLOCKNER-HUMBOLDT-DEUTZ AKTIENGESELLSCHAFT of Deutz-Mulheimer-Str. 111, 5000 Köln 808, West Germany, a German company.

Inventor : FRIEDEL ISENHARDT, HEINZ-DIETER WAIÐHECKER, GUNTER HENRICH & ROLF HANS PUFAL, PETER PASCHEN.

Application for Patent No. 238/Del/83 filed on 8th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

18 Claims

A method of producing synthesis gas consisting essentially of about 65% Co and about 33% H₂ by reacting a carbon source such as herein described and a gasifying agent such as herein described in a high temperature molten metal bath characterised by forming a molten metal forth by passing in the molten metal a carrier gas and bath or one of the reactants, supplying at least one of said reactants to the forth and reacting said reactants in the forth to produce said synthesis gas.

Compl. Specn. 22 pages.

Drg. 4 sheets.

CLASS : 9D [XXXIII(1)].

158862

Int. Cl. : B 22f, 3/12.

"A PROCESS FOR MANUFACTURING A SINTERED IRON BASE ARTICLE"

Applicant(s) : THE BENDIX CORPORATION, a corporation organised and existing under the laws of the State of Dela ware and having an office at Bendix Centre, Southfield, Michigan, U.S.A.

Inventor(s) : KEITH EDWARD SANETLEBEN & WALTER RALPH TARR.

Application for Patent No. 241/Del/1983 filed on 12th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A process for manufacturing a sintered iron base article comprising the steps of :

- (a) mixing 72—85% by weight of an iron base material in powder form;
3—14% by weight of graphite;
2—12% by weight of coke;
3—10% by weight of a low melting material of the kind such as herein described and the total weight of the above ingredients do not exceed more than 100%;

- (b) placing the mixture thus obtained in a mold and exerting a compressive force of about 420 000 kpa thereon;

- (c) transferring the article thus obtained to an oven having a temperature of between 700—1100°C and

- (d) transferring the article to a press and exerting again a pressure of about 420 000 kpa thereon.

Compl. Specn. 12 pages.

Drg. 3 sheets.

CLASS : 32C [IX(1)].

158863

Int. Cl. A 61k, 19/00.

"A PROCESS FOR THE PREPARATION OF ESTRIOL 6-CARBOXYMETHYL OXIME-DEHYDROGENASE ENZYME CONJUGATE DERIVATIVES"

Applicant(s) : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor(s) MRIDUL GHOSH & BIMALK BACHHAWAT.

Application for Patent No. 283/Del/1983 filed on 5th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the preparation of estriol-6-carboxymethylxime dehydrogenase enzyme conjugate derivatives comprising coupling activated ester of estriol-6-carboxymethylxime steroid with a dehydrogenase enzyme and separating the conjugate derivative formed from the reaction mixture by conventional chromatography technique and lyophilised.

Compl. Specn. 8 pages,
2—447 GI/86

Drg. 2 sheets.

CLASS : 69 M I.

158864

Int. Cl. : H01h—1/12.

"An ELECTRICAL PRESSURE CONTACT WITH BUILTIN OPENING AND CLOSING CAPABILITY"

Applicant : SOCIETE D' EXPLOITATION DES PROCEDES MARECHAL (SEPM), of 92, avenue de Saint Mande 75012 Paris, France.

Inventor : MAGOUROU YVES LE.

Application for Patent No. 480/Del/1983 filed on 15th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

A pressure contact for establishing an electrical connection between a conducting pin (11) supported rigidly by the insulating carrier of a plug and a fixed contact stud (12) connected electrically to an input terminal and disposed in a well (14) formed in the insulating carrier (15) of a socket when the plug pin (11) is introduced axially into the well (14) in the socket, the bodies of the plug and the socket carrying combined guiding and locking means to effect and then maintain said introduction, characterised in that it comprises a rigid and moving conducting part (17) disposed in the well (14) in the socket and designed to be pushed back towards the bottom of the well by the free end of the pin (11) bearing on an angled end piece (18) on said part against an elastic means (21) which tends to apply said angled piece (18) against the opening (16) of the well (14), in that guiding means (22) are provided to give the moving part (17) a movement exhibiting a component parallel with the contact axis until its end remote from the angled end piece (18) comes level with the contact stud (12) connected to the input terminal and in that the moving part (17) and the guiding means (22) are arranged in such a way that at the end of this movement the moving part escapes from said means, tilts and is applied sharply against the contact stud (12) through the action of an elastic means (24) whereas the latter helps to ensure that contact is broken sharply when the plug pin (11) is withdrawn by accentuating the tilting of the moving part (17).

Compl. Specn. 14 pages.

Drg. 2 sheets.

CLASS : 145 A.

158865

Int. Cl. : D01c—1/00.

"WET PROCESS FOR THE RECOVERY OF ASBESTOS FIBRE FROM ASBESTOS-BEARING MATERIAL"

Applicant : ICI AUSTRALIA LIMITED, a company incorporated under the laws of the State of Victoria, of 1 Nicholson Street, Melbourne, Victoria 3001, Australia.

Inventors : JOHN RICHARD ANDREWS, PHILIP SIDNEY BROWNRIGG STEWART AND GEORGE THEOPHILUS HURST.

Application for Patent No. 305/Del/1983 filed on 11th May, 1983.

Convention date 25-5-82, 13-5-83/PF4138, 584946/ (Australia and U.S.A.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

13 Claims

A wet process for the recovery of asbestos fibre from asbestos-bearing material of the kind such as herein-described which process comprises : preparing a fibre concentrate by comminuting said asbestos-bearing material, separating the fibre using at least one mechanical classifier and at least one spiral separator or at least one hydrocyclone of at least 150 mm diameter and at least one spiral separator, and concentrating the fibre using at least one hydrocyclone of at least 150 mm diameter; fractionating said fibre concentrate into a well-opened fibre fraction and a poorly opened fibre fraction using at least one hydrocyclone of diameter less than 150mm; and collecting the well-opened fibre fraction on a screen.

Compl. Specn. 25 pages.

*Drg. 1 sheet.

CLASS : 116F & G.

158866

Int. Cl. : B 66 B-1/26, 13/14, H 02 P-7/00, G 0 5 D-13/62.

"ELEVATOR WITH ELEVATOR MOTORING AND REGENERATING DYNAMIC GAIN COMPENSATION".

Applicant : OTIS ELEVATOR COMPANY, a corporation of the State of New Jersey, United States of America, located at Ten Farm Springs, Farmington, Connecticut 06032, U.S.A.

Inventor : JALAL TAWFIQ SALIHI & LECA BOIU-CANER.

Applicant for Patent No. 677/Del/1983 filed on 29th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

An elevator comprising : a polyphase electric motor, said motor having N phases and corresponding windings; a D. C. power source; an inverter connected to the D. C. power source and the motor for providing current or voltage from said source to each stator winding in the motor; a position encoder connected to the motor for providing a signal (TACH) that represents motor speed and direction; an elevator car that is propelled by the motor;

an elevator control connected to the inverter and said encoder for controlling the operation of the means for providing current or voltage to produce alternating N phase current or voltage for said stator windings to control motor speed SLIP and direction; the elevator being characterised in that said elevator control comprises; first means connected to the position encoder output for providing a signal (AMPLITUDE) in response to the TACH signal to control motor speed (r.p.m.);

second means connected to the position encoder output for providing a signal (SLIP) in response to the TACH signal to control the difference between the motor r.p.m. and the frequency (F SYNCH) of the alternating current or voltage that is supplied to the motor by the inverter;

third means connected to the output of the first and second means to receive the SLIP signal and TACH signal for providing a signal that repeats at F SYNCH, said signal identifying an angular position on a sine curve, and for providing N second signals, each representing the Y-coordinate on said sine curve at different angular positions thereon, said positions being equally spaced apart by $360^\circ/N$, said N second signals being provided in a successive sequence during each motor rotation, the sequence in one motor direction being the reverse of the sequence in the opposite direction;

fourth means connected to receive the AMPLITUDE signal from the first means for varying the magnitude of each second signal as a function of the AMPLITUDE signal;

fifth means connected to the third means for applying each second signal to one of the inputs of the inverter according to said successive sequence;

sixth means connected to the output of the position encoder for providing a dictated motor speed signal in response to the TACH signal, said dictated motor speed signal representing a desired motor speed; and

seventh means connected to the output of said sixth means for providing a torque control signal in response to said dictated speed signal and said TACH signal and varying said torque control signal in relation to the motor speed for a constant dictated speed signal;

said first means for providing said AMPLITUDE signal and said second means connected to said seventh means for providing said slip signal and responsive to said torque control signal.

Compl. Specn. 25 pages,

Drg. 2 sheets.

CLASS : 32F₃(b).

158867

Int Cl. : C07d 33/00.

"A PROCESS FOR THE PREPARATION OF STEREOISOMERS OF 9-AMINO-1-HYDROXYOCTAHYDROBENZO (C) QUINOLINE DERIVATIVES".

Applicant : PFIZER INC., a corporation organized under the laws of the State of Delaware, United States of America of 235 East 42nd Street, New York, State of New York, United States of America.

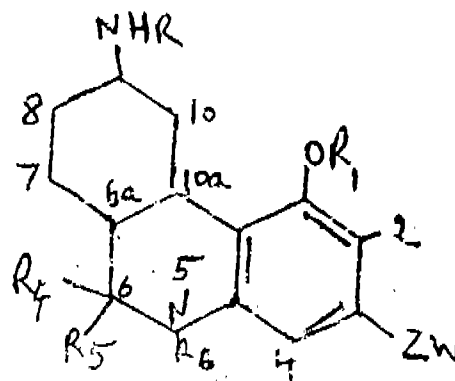
Inventor : MICHAEL ROSS JOHNSON.

Application for Patent No. 429/Del/81 filed on 3rd July, 1981.

Appropriate office for - opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

A process for the preparation of stereoisomers of 9-amino-1-hydroxyoctahydrobenzo (c) quinoline derivative of the formula I



and a pharmaceutically-acceptable acid addition salt thereof, wherein R is hydrogen, COR₁ or SO₂R₂ where R₂ is hydrogen, alkyl having from one to five carbon atoms, trifluoromethyl or phenyl; and R₃ is methyl or p-tolyl;

R₁ is hydrogen, benzyl or alkanoyl having from one to five carbon atoms;

R₄ is hydrogen or methyl;

R₅ is hydrogen or methyl;

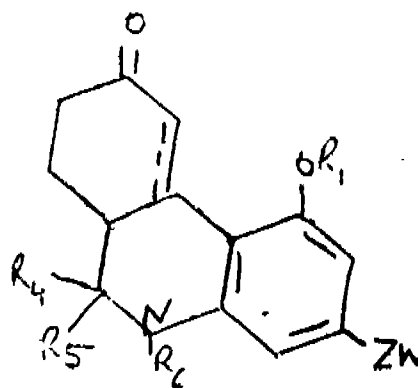
R₆ is hydrogen or methyl;

Z is -(alk₁)m-O-(alk₂)n-wherein each of (alk₁) and (alk₂) is alkylene having from one to nine carbon atoms, with the proviso that the total number of carbon atoms in (alk₁) plus (alk₂) is not greater than nine; each of m and n is 0 or 1; and

W is phenyl;

characterised in that :

an enone of the formula II



wherein the broken line is an optional double bond and R_1 , R , R_2 , R_3 , Z and W are as defined above, is reacted with hydroxylamine followed by catalytic hydrogenation such as herein described to provide a compound of formula I where R is hydrogen and if desired the resulting compound is acylated with a compound of the formula R_1COR^* or $(R_1CO)_2O$, or sulfonylated with a compound of formula $R_1SO_2R^*$, where R^* is OH, alkoxy having from one to four carbon atoms, Cl or Br; R^b is OH, Cl or Br and R^7 and R^8 are as defined above and separating the isomers and preparing a pharmaceutically acceptable acid addition salt in a known manner.

Compl. Specn. 42 pages.

Drg. 8 sheets.

CLASS : 39C & 40B

158868

Int. Cl. C07C, 85/02.

"A PROCESS FOR THE PRODUCTION OF AMMONIA."

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, of Imperial Chemical House, Millbank, London SW1P 3JF, England, a British company.

Inventor : ALWYN PINTO.

Application for Patent No. 635/Del/1981 filed on 1st Oct. 1981.

Convention date October 14, 1980/8033131/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

1. A process for the production of ammonia which comprises :—

- primary catalytically reforming a hydrocarbon feedstock with steam at superatmospheric pressure and in conditions of steam-to-carbon ratio, pressure and temperature to produce a gas containing carbon monoxide and carbon dioxide, hydrogen and at least 10% v/v methane on a dry basis ;
- secondary catalytically reforming the gas from step (a) by introducing air and bringing the mixture towards equilibrium, whereby to produce a gas containing nitrogen, carbon monoxide and carbon dioxide, hydrogen and a decreased quantity of methane, the quantity of air used being in excess of what would introduce 1 molecule of nitrogen per 3 molecules of hydrogen ;
- converting carbon monoxide catalytically in any known manner with steam to carbon dioxide and hydrogen ;
- removing carbon monoxide and carbon dioxide to give a nitrogen-hydrogen ammonia synthesis gas ;
- reacting the synthesis gas over a synthesis catalyst to produce ammonia and recovering ammonia from the reacted gas ; and
- treating synthesis gas after reaction to synthesise ammonia to separate a stream enriched in hydrogen and returning the enriched stream to the synthesis ;

and is characterised in that

X. the hydrogen to nitrogen molar ratio of the gas entering the synthesis catalyst in step (e) is in range 1.0 to 2.5 ; and

Y. in step (a) the hydrocarbon steam mixture is preheated to provide the endothermic heat of reaction and reacted over at least one adiabatic catalyst bed, whereby the temperature of the reacting gas falls as it proceeds through the catalyst bed.

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 32 F 2(d) & 55 Ea.

158869

Int. Cl. C 07C 129/00.

"A PROCESS FOR THE PREPARATION OF HETEROCYCLIC DERIVATIVES."

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, of Imperial Chemical House, Millbank, London SW1P 3JF, England, a British company.

Inventors : DERRICK FLEET JONES AND KEITH OLDHAM.

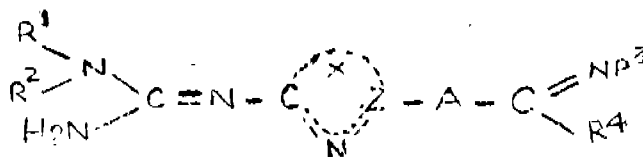
Application for Patent No. 149/Del/1982 filed on 23rd February, 1982.

Convention Date on 18th March, 1981/8108407 and 29th October, 1981/8132680/(U.K.).

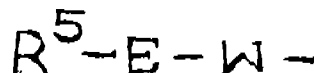
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A process for the manufacture of heterocyclic derivatives of the formula I

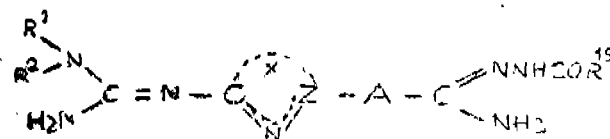


in which R^1 and R^2 , which may be the same or different, are hydrogen atoms or branched or unbranched 1-10C alkyl, 2-8C cycloalkyl or 4-14C cycloalkyl-alkyl radicals each alkyl, cycloalkyl or cycloalkylalkyl radical being optionally substituted by one or more halogen atoms selected from fluorine, chlorine and bromine atoms, provided that at least one of R^1 and R^2 is a halogen-substituted alkyl, cycloalkyl or cycloalkylalkyl radical and provided there is no halogen substituent on the carbon atom of the alkyl, cycloalkyl or cycloalkylalkyl radical which is directly attached to the nitrogen atom, or R^2 is a hydrogen atom and R^1 is a radical of the formula II



in which W is an unbranched 2-6C alkylene chain which is optionally substituted by one to two 1-4C alkyl radicals, E is an oxygen or sulphur atom, a sulphinyl or sulphonyl radical, or a radical of the formula NR^0 in which R^0 is a hydrogen atom or a 1-6C alkyl radical, R^0 is a hydrogen atom or an unbranched 1-6C alkyl radical which is optionally substituted by one or two 1-4C alkyl radicals, or R^0 and R^0 are joined to form, together with the nitrogen atom to which they are attached, a pyrrolidine, piperidine morpholine, piperazine or N-methylpiperazine ring; in ring X the dotted line is a double bond on one side of the nitrogen atom and Z is a carbon or nitrogen atom such that ring X is a 5- or 6- membered aromatic heterocyclic ring which contains at least one nitrogen atom and may optionally contain one or two additional hereto atoms selected from oxygen, nitrogen and sulphur atoms, which heterocyclic ring may, where possible, carry one or two optional substituents, the optional substituents on ring X being selected from fluorine, chlorine and bromine atoms and 1-6C alkyl, 1-6C alkoxy, trifluoromethyl, hydroxy and amino radical, A is a phenylene or a 5-7C cycloalkylene radical or a 1-8C alkylene chain which is optionally substituted by one or two 1-3C alkyl radicals and into which is optionally inserted, as part of the backbone of the chain, one or two groups selected from oxygen and sulphur atoms and NH , 1-6C N-alkyl, *cis* and *trans* vinylene, ethynylene, phenylene and 5-7C cycloalkylene radicals, provided that the shortest

link between ring X and C(R¹) = NR³ is of at least 3 atoms, provided that when an optional insertion is made in chain A which results in the inserted group being directly attached to C(R¹) = NR³ the inserted group is other than an NH of N-alkyl radical, and provided that no two insertions selected from oxygen and sulphur atoms and NH and N-alkyl radicals are directly attached one to the other; R¹ is a radical of the formula NHR⁷ wherein R⁷ is a hydrogen atom and R³ are joined to form a 1, 2, 4-triazole ring which is substituted in the 5-position by a 1-6C alkyl, trifluoromethyl, hydroxy, 6-10C aryl, 7-11C arylalkyl, 2-6C carboxyalkyl, 3-10C alkoxyalkyl, 1-6C hydroxyalkyl, heteroaryl-(1-6C) alkyl, furyl, thienyl, pyrrolyl, thiazolyl, oxazolyl, imidazolyl, thiadiazolyl, oxadiazolyl, triazolyl, R₃ is a Hydrogen atom pyrazolyl or pyrimidyl radical or a 1-6C alkyl, 2-6C alkenyl and wherein when R³ and R⁷, when joined, is substituted by a heteroarylalkyl radical, that heteroaryl radical is a 5- or 6- membered heterocyclic ring which contains 1, 2, 3 or 4 heteroatoms selected from oxygen, nitrogen and sulphur atoms, such ring being optionally substituted by one or two substituents selected from methyl and amino radicals; and the pharmaceutically-acceptable acid-addition salts thereof, characterised by cyclisation in any known manner of a compound of the formula IV



in which R¹⁹ is a 1-6C alkyl, trifluoromethyl, hydroxy, 1-6C alkoxy, 6-10C aryl, 7-11C arylalkyl, 2-6C carboxyalkyl, 2-6C alkoxyalkyl, 3-10C alkoxyalkyl, 1-6C hydroxyalkyl, heteroaryl-(1-6C) alkyl, furyl, thienyl, pyrrolyl, thiazolyl, oxazolyl, imidazolyl, thiadiazolyl, oxadiazolyl, triazolyl, pyrazolyl or pyrimidyl radical; and if desired, reacting of the compound of the formula I of the drawings in free base form with an acid to produce a pharmaceutically-acceptable anion.

Compl. Specn. 45 pages.

Drgs. 6 sheets.

CLASS : 55F and 32 F₃ (b).

158870

Int. Cl. : C 12d 9/00.

"A PROCESS FOR PRODUCING NEW POLYCYCLIC ETHER ANTIBIOTIC."

Applicant : PFIZER INC. a corporation organised under the laws of the State of Delaware, United States of America, of 235 East 42nd Street, New York, State of New York, United States of America.

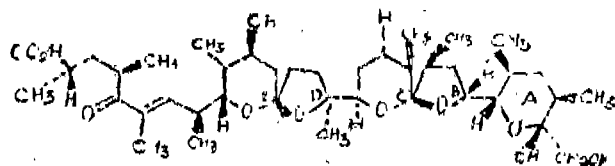
Inventors : WALTER DANIEL CELMER WALTER PATRICK CULLEN, RICHIRO SHIBAKAWA AND JUNSUKU TONE.

Application for Patent No. 393 Del/1982 filed on 24th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

3 Claims.

A process for producing new polycyclic ether antibiotic of formula I



which comprises cultivating in a known manner the micro-organism streptomyces halstedii ATCC 31812 in aqueous culture media such as herein described containing in assimilable source of carbon, nitrogen and inorganic salts under submerged aerobic fermentation conditions until a substantial amount of said antibiotic is obtained and separating said antibiotic from the fermentation medium in any one of the known methods.

Compl. Specn. 31 pages.

Drgs. 3 sheets.

CLASS : 116 C.

158871

Int. Cl. : B65g, 15/00, 15/32.

"A ROPE-DRIVEN CONVEYOR BELT ASSEMBLY".

Applicant : HANS PETER LACHMANN, of Drosselweg 29, 5000 Köln 60, Bundesrepublik Deutschland West Germany, a German citizen.

Inventor : HANS PETER LACHMANN.

Application for Patent No. 573/Del/1982 filed on 27th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

14 Claims

A rope-driven conveyor belt assembly which comprises an endless conveyor belt, rotatable belt support means provided at either end of said conveyor belt over which said belt travels and by which it is supported, guiding edges provided along each longitudinal edge of said belt, a plurality of rope engaging means contracting each of said guiding edges along the length thereof, said plurality of rope engaging means being adapted to be engaged by at least one rope, and drive means in contact with each said rope for driving said rope, said drive being translated to said conveyor belt through the medium of said rope engaging means and said guiding edges.

Compl. Specn. 9 pages.

Drgs. 4 sheets.

CLASS : 85 Q.

158872

Int. Cl. : F27b 7/00, 7/02.

"AN IMPROVED ROTARY KILN FOR DIRECTLY REDUCING OXIDES OF IRON TO METAL IRON AND A METHOD THEREFOR".

Applicant : DAVY McKEE (STOCKTON) LIMITED, of Stockton-on-Tees England TS18 3RE, a United Kingdom incorporated company.

Inventors : ALAN CHRISTOPHER BAKER, GEOFFREY NIGEL BOULTER & DANIEL H. WILBERT.

Application for Patent No. 817/Del/82 filed on 6th November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

An improved rotary kiln for directly reducing oxides of iron to metal iron using a solid carbonaceous material as the source of fuel and reductant, which apparatus comprises a kiln which is rotatable about an axis inclined to the horizontal and which has an opening at the higher end for receiving the metal oxides materials as a charge along with a portion of the solid carbonaceous materials, an opening at the lower end for receiving the remainder of the solid carbonaceous materials and for discharging the reduced materials therefrom, a feed end dam located at the higher end, a discharge end dam located at the lower end, and intermediate dam means, disposed within the kiln between the feed end and discharge end dams at a location about one third the distance along the length of the kiln from the feed end dam, and arranged to create a bed of charge

materials in the region between the feed end dam and said dam means with a depth such that the volume filling and residence time of the bed materials in said region are sufficient to permit the transfer of adequate heat thereto at the available rate of heat transfer through the surface of the bed in said region to raise the temperature of the materials to a level approaching the reduction temperature of the metal oxides by the time the materials reach the end of said region in their movement through the kiln.

Compl. Specn. 32 pages.

Drg. 1 sheet.

CLASS : 70 B [LVIII(5)].

158873

Int. Cl. H 01 m -35/00.

"ELECTRODE STRUCTURE".

Applicant(s) : IMPERIAL CHEMICAL INDUSTRIES PLC, of Imperial Chemical House, Millbank, London SW1P 3JP England, a British Company.

Inventor(s) : THOMAS WESLEY BOULTON.

Application for Patent No. 837/Del/1982 filed on 12th November 1982.

Convention Application No. 8135410 filed on 24th November 1981 (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

An electrode structure comprising an electrically conductive metallic sheet material and at least one flexible electrically conductive foraminated metallic sheet spaced apart from the said sheet material and electrically conductively bonded thereto, characterised in that a plurality of projections are provided on at least one surface of the said sheet material which projections are spaced apart from each other in a first direction and in a direction transverse to the said first direction, and in that the said flexible electrically conductive foraminated metallic sheet(s) are electrically conductively bonded to the said projections.

Compl. Specn. 28 pages.

Drgs. 3 sheets.

CLASS : 68 D, 69 G, 69 I.

158874

Int. Cl. : H02 b 13/00, H 01 h 69/00, H 05 k 7/00.

"ELECTRICAL BAY EQUIPMENT".

Applicant : BHARTIA CUTLER HAMMER LIMITED of 1101, New Delhi House, 27 Barakhamba Road, New Delhi-110 001. India, an Indian company.

Inventor : RIDLEY BILLINGHAM.

Application for Patent No. 908/Del/1982 filed on 13th December, 1982.

Convention date on 19-12-1981/81 38330 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

Electrical bay equipment comprising a removable bay unit energizable when in a bay through a disconnect switch mounted on the unit, said bay being an enclosure for receiving the bay unit at an operational position at which fixed contacts in the bay are contacted by co-operating contacts on the unit for electrical energization of the unit, a door to the bay having closed condition preventing any manipulation or removal or replacement of the unit with respect to its operational position, an interlock member movably mounted on the unit and moved into a locking position whenever the disconnect switch is at its 'on' position allowing energizing of the unit, an interlock detent mounted in the bay to hold the interlock member when the latter is in its locking position against either said removal or said replacement of the bay unit, and automatic coupling means connected between the door and the unit when the unit is

in its operating position in the bay, for operating the disconnect switch to its 'off' position of disconnect whenever the door ceases to be in its closed condition; the disconnect switch being so accessible to human action that it can be manipulated other than by said automatic coupling means, with the 'on' or 'off' condition of the disconnect switch always determining the position of the interlock member however the disconnect switch is manipulated.

Compl. Specn. 13 pages.

Drgs. 2 sheets.

CLASS : 123 [I(4)].

158875

Int. Cl. : C 05 g-1/00.

"PROCESS FOR PRODUCING GRANULAR COMPOUND FERTILIZER".

Applicant(s) : TOYO ENGINEERING CORPORATION of 2-5, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, Japan, a Japanese Company and MITSUI TOATSU CHEMICALS, INC. of 2-5, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, Japan, a Japanese Company.

Inventor(s) : BUNJI KINNO, HIROSHI HIRAYAMA, YOSHIHIDE TAKAMI, SUSUMU NIOH, HIROSHI WATANABE, NOBUYUKI MATSUMOTO, MASAKI NARUO, KAZUAKI HASHIMOTO and FUJIO KATOH.

Application for Patent No. 938/Del/1982 filed on 27th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A process for producing a granular compound fertilizer containing at least two components selected from the group consisting of nitrogen, phosphate radical, potassium and other effective fertilizer ingredients, characterized in that at least one component is selected from the group of starting compounds consisting of urea, ammonium chloride, ammonium nitrate, sodium nitrate, calcium nitrate, ammonium phosphate and ammonium sulfate; a high-temperature aqueous solution having a concentration of at least 80% of saturation concentration is formed from all or the major quantity of said selected compound and water in a specified quantity of up to 40 wt% on the basis of all or the major quantity of said selected compound; a high temperature slurry containing at least 40 vol% of liquid is formed by adding the balance of said major quantity and/or a powdery substance which is selected from compounds other than said group of said starting compounds and can be fixed with it as at least one fertilizer component, to said high-temperature aqueous solution; and said high-temperature slurry is attached spraying onto seed particles which are moving in the space of a granulating zone, and is then dried and/or cooled.

Compl. Specn. 30 pages.

Drgs. 3 sheets.

CLASS : 116 C.

158876

Int. Cl. : H 01 q 1/00.

"APPARATUS FOR DETECTING A RIP IN A CONVEYOR BELT MOVEABLE IN A CLOSED PATH OF TRAVEL."

Applicant : THE B. F. GOODRICH COMPANY, a corporation organised under the laws of the State of New York, of 277 Park Avenue, New York, New York 10017 and with business offices at 500 South Main Street, Akron, Ohio 44318, U.S.A.

Inventors : HOWARD LARKIN JACOBS, ROBERT JAMES HOUCK AND RICHARD GRANT KLEIN.

Application for Patent No. 941/Del/82 filed on 28th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

Apparatus for detecting a rip in a conveyor belt movable in a closed path of travel, the apparatus comprising at least one sensor probe means positioned along the path of travel of the conveyor belt and electrically conductive antennas embeddedly positioned within the conveyor belt and configured for carrying signals across the belt during normal conditions and for ceasing the carrying of signals when the belt and antenna are ripped, said antennas consisting of a vulcanizable material principally consisting of rubber and also consisting of electrically conductive carbon black particles between more than 10% and less than 25% by weight of the material of the antenna.

Compl. Specn. 17 pages.

Drgs. 2 sheets.

CLASS : 56 C & G.

158877

Int. Cl. : C131 1/02.

"A CRYSTALLIZER".

Applicant : BHUSHAN LAL MITTAL, of 12 Avas Vikas, Civil Lines Moradabad-244-001, India, an Indian national.

Inventor : BHUSHAN LAL MITTAL.

Application for Patent No. 329/Del/82 filed on 28th April, 1982.

Additional to patent application no. 206/Del/81 filed on 9-4-1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A crystallizer comprising a vessel having an inner and outer chamber disposed therein, cooling means provided with said inner chamber as disclosed in parent patent application no. 206/Del/81 wherein the improvement residing in that said outer chamber is the feed chamber and has an opening at the lower end in flow communication with said inner chamber, an outlet provided with said inner chamber for the discharge of the massecuite of mother liquor.

Compl. Specn. 11 pages.

Drg 1 sheet.

CLASS : 32 F2b.

158878

Int. Cl. C07c 125/06 & C07d 49/38.

PROCESS FOR THE SYNTHESIS OF METHYL-5(6)-N, N-DISUBSTITUTED AMINO CARBAMAMOYL BENZIMIDAZOLE-2-CARBAMATES.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : SHIV KUMAR, MANJU SETH, AMIYA PRASAD BHADURI, PRADEEP KUMAR SINGH VISEN, SHIVE/RAM, ANURADHA MISHRA, SHYAMAL CHANDRA BHAR, JAGDISH CHANDRA KATIYAR, AMIYA BHUSHAN SEN & SUMAN GUPTA.

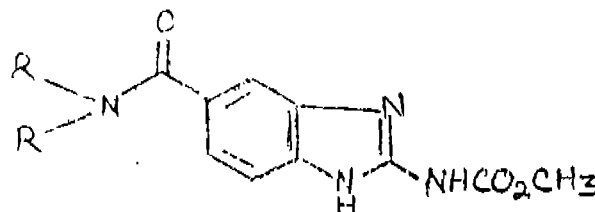
Application for Patent No. 538/Del/1982 filed on 15th July, 1982.

Complete specification left on 15th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

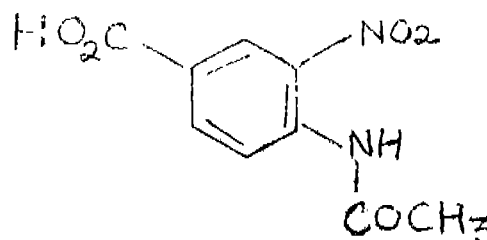
4 Claims

A process for the synthesis of methyl 5 (6)-N, N-disubstituted amino carbamoyl benzimidazole-2-carbamates of general formula (V)



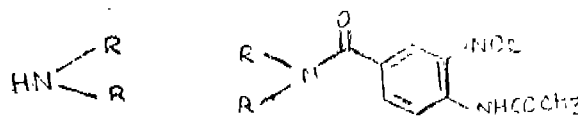
Formula V

comprising reacting 4-acetamido-3-nitro-benzoic acid of formula (I)



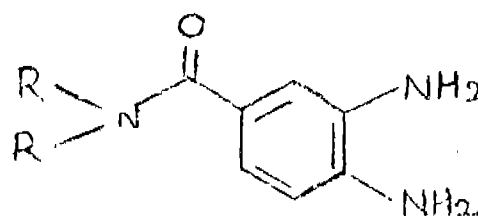
Formula I

with thionyl chloride and treating the reaction mixture with a secondary amine of formula (2) in the presence of an organic aromatic hydrocarbon solvent to obtain 4-N, N-disubstituted-amino-carbamoyl-2-nitro acetamide of formula (II);



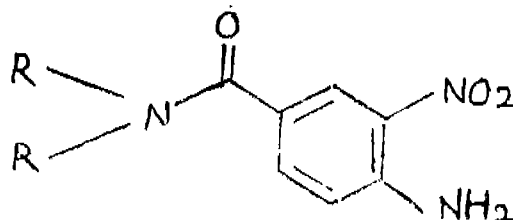
Formula II

subjecting the compound of formula (II) to alkaline hydrolysis in the presence of an organic alcohol solvent to form 4-N, N-disubstituted amino carbamoyl-2-nitroanilines of formula (III),



Formula III

subjecting the same to reduction in the presence of Raney-Ni and alkanol with hydrogen to obtain 4-N, N-disubstituted amino carbamoyl-O-phenylenediamines of formula (IV)



Formula IV

and then treating the compound of formula (IV) with N-methoxy-carbonyl-S-methyl isothiourides to yield the final compound of formula (V) wherein, NRR is diethyl amino, dipropyl amine, diisopropyl amino, diisobutyl amino, morpholino, piperidino, N-phenyl piperazino or N-(2-pyridyl)-piperazine groups.

Provisional Specn. 6 pages.

Compl. Specn 7 pages.

Drg. 1 sheet.

CLASS : 154 B D.

158879

Int. Cl. : B 41 f 19/00.

"APPARATUS FOR THE ACCURATELY ALIGNED EMBOSSEING, PRINTING OR BLANKING PROCESSING OF A PRINTED WEB IN A PACKAGING MACHINE".

Applicant : TETRA PAK INTERNATIONAL AB., a Swedish company of Box 1701, S-221 01 Lund, Sweden.

Inventor : JOSEF KOPP, KLAUS AHL, HEINRICH AHLKEMPER.

Application for Patent No. 606/Del/1982 filed on 6th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

Apparatus for the accurately aligned embossing, printing or blanking processing of a printed web in a packaging machine, comprising at least one web transporting roller for transporting said printed web and a transport roller drive means connected to said web transporting roller, at least one processing roller connected to processing roller drive means and a counter roller in pressing contact with said at least one processing roller, an optical scanning device located prior to said at least one processing roller for optically scanning a printed mark on said web, said processing roller drive means being connected to a controllable-clutch, said controllable clutch being connected to said optical scanning device for receiving signals from said optical scanning device to operate said processing roller drive means intermittently on scanning of printed mark taking place, said processing roller drive means having a step rise in torque for imparting a peripheral velocity to the or each processing roller greater than the peripheral speed given to the web transporting roller by said transport roller drive means and wherein between the web transporting roller and the transport roller drive means there is an over-take freewheel clutch.

Compl. Specn. 13 pages.

Drgs. 2 sheets.

CLASS : 146 D.

158880

Int. Cl. : G03b 1/00, 21/32.

"FILM SUPPORT DEVICE".

Applicant : IMAX SYSTEMS CORPORATION, a corporation under the laws of Canada, of 38 Isabella Street, Toronto, Ontario M4Y 1N1, Canada.

Inventor : WILLIAM CHESTER SHAW.

Application for Patent No. 607/Del/1982 filed on 6th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A film support device for a projector, camera or optical printer having a rolling loop film transport mechanism, the device supporting a film in relation to an aperture of said projector, camera or optical printer, which comprises an elongate field flattener lens element having a film support surface across which successive portions of a film of known width is laid during transportation of said film in a film

transport path which includes said aperture support means for said field flattener lens and cleaning means, characterised by support means for said field flattener elongate lens element for moving said lens element in a direction normal to said film transport path between first and second positions in which respectively different portions of said film support surface of said elongate field flattener lens element are disposed in said film path; said film support surface of the field flattener lens element being continuous and of uniform cross-sectional shape with a length sufficiently in excess of twice the width of the film so that said movement of the field flattener lens element between its first and second positions will cause a portion of said film support surface in said film support surface in said path to move to a position out of said path; and, cleaning means in the form of wipers provided adjacent said film support surface and respectively above and below the film transport path and in contact with the lens element removing debris from the portion of said film support surface which has been moved out of said path.

Compl. Specn. 32 pages.

Drgs. 9 sheets.

CLASS : 24 F.

158881

Int. Cl. : B 60t 7/00.

"ROTOR FOR A DISC BRAKE ASSEMBLY FOR MOTOR VEHICLES".

Applicant : THE BENDIX CORPORATION, of Bendix Center, Southfield, Michigan 48076, United States of America.

Inventor : BRUCE EARL LATVALA, KURT RICHARD HEIDMANN.

Application for Patent No. 608/Del/1982 filed on 10th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A rotor for a disc brake assembly for motor vehicles comprising a first portion adapted for attachment to or, in the alternative, integrally formed with a wheel assembly, a second portion axially offset from the first portion and adapted in a manner known per se. for absorbing thermal energy during braking which increases the temperature of the second portion and a connecting portion extending between the first and second portions, the second portion expanding in response to the increase in temperature and the connecting portion opposing the expansion to cause the second portion to tilt in a first direction toward the first portion away from a desired position, characterized in that said connecting portion is attached to said second portion to define a predetermined temperature gradient within said second portion during braking and said predetermined temperature gradient causes said second portion to tilt in a second direction substantially opposite to the first direction to substantially maintain said second portion in the desired position.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 141D.

158882

Int. Cl. : C01b 33/00 & C22b 1/00.

"METHOD AND APPARATUS FOR EXPANDING PARTICULATE SOLIDS".

Applicant : GREFCO, INC., a corporation existing by and under the laws of the State of Delaware and having its principal place of business at 225 City Avenue, Bala Cynwyd, Pennsylvania 19004, United States of America.

Inventor : ALBERT RAYMOND COLLINS.

Application for Patent No. 645/Del/1982 filed on 24th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

23 Claims

A method for manufacturing expanded particulate solids such as perlite ore comprising the steps of :

(a) directing a flame downwardly along the central axis of a vertically disposed cylindrical furnace;

(b) introducing the perlite ore into the furnace at a plurality of locations distributed radially around said flame at the upper end of said furnace; and

(c) directing the perlite ore downwardly and toward the central axis of said furnace thereby placing said perlite ore within said flame as said perlite ore passes downwardly through said furnace.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 85 C, 40 F.

158883

Int. Cl. F 23k 3/00, F 27b 15/00.

"A DEVICE FOR DOSING FUELS, PARTICULARLY CAKING FUELS, IN FLUIDIZED BED REACTOR".

Applicant : BERGWERKSVERBAND GmbH, a French company of Franz-Fischer-Weg 61, 4300 Essen 13, West GERMANY.

Inventor : WERNER PETERS, HARALD JUNTGEN, KARL HEINRICH VAN HECK, REINHOLD KIRCHHOFF, HEINRICH WAGENER.

Application for Patent No. 657/Del/1982 filed on 30th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

18 Claims

A device for dosing fuels, particularly caking fuels, in a fluidized bed reactor, comprising an injection pipe for conveying a fuel and having an end provided with an injection nozzle; a jacket pipe for conveying a fluid and surrounding said injection pipe in the fluidized bed reactor, said jacket pipe having an end provided with a jacket nozzle said jacket pipe being constricted prior to said jacket nozzle as considered in a flow direction and at a location juxtapositioned to said jacket nozzle; and a heat exchanger by-passing said location at which said jacket pipe is constricted.

Compl. Specn. 24 pages.

Drgs. 4 sheets.

CLASS : 56 G&C.

158884

Int. Cl. : C 13L 1/02.

"A CRYSTALLIZER."

Applicant : BHUSHAN LAL MITTAL of 12 Avas Vikas, Civil Lines, MORADABAD-244 001, India, an Indian national.

Inventor : BHUSHAN LAL MITTAL.

Application for Patent No. 710/Del/1982 filed on 16th September, 1982.

Addition to Patent Application No. 206/Del/81 filed on 9th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

In a crystallizer comprising an inner and outer chamber in flow communication with each other, a peripheral gutter provided with said outer chamber, a rotatable shaft disposed within said inner chamber, a plurality of stirrers held to said shaft and extending within said outer chamber, the improvement or modification comprising in one of said chamber forms the feed chamber for receiving the masseccuite, cooling means being provided with said outer chamber.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 56 G & C.

158885

Int. Cl. C131 1/02.

"A CRYSTALLIZER FOR USE IN SUGAR MANUFACTURE".

Applicant : BHUSHAN LAL MITTAL of 12 Avas Vikas, Civil Lines, Moradabad-244 001, India, an Indian national.

Inventor : BHUSHAN LAL MITTAL.

Application for Patent No. 206/Del/81 filed on 9th April, 1981.

Complete specification left on 28th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A crystallizer for use in sugar manufacture comprising an inner and outer chamber in flow communication with each other and such that the masseccuite is introduced into said inner chamber, a peripheral gutter being provided with said outer chamber so as to allow a over flow of the masseccuite from said outer chamber into said gutter, means for cooling of said masseccuite.

Compl. Specn. 12 pages.

CLASS : 197.

158886

Int. Cl. : C23g 1/00.

"METHOD FOR THE REMOVAL OF OIL FROM SOLID SURFACES".

Applicant : ALBRIGHT & WILSON LIMITED, a British Company of Albright & Wilson House, Hagley Road West, Oldbury, Warley, West Midlands, England.

Inventor : MICHAEL BLEZARD AND WILLIAM HECTOR.

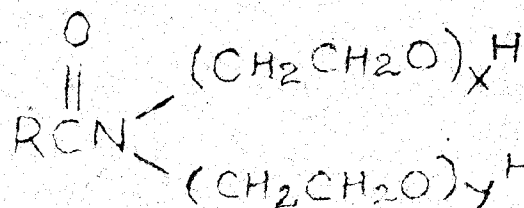
Application for Patent No. 948/Del/1982 on 31st December, 1982.

Convention date on 7th January, 1982/8200376/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

A method for the removal of oil from solid surfaces which comprises contacting the surfaces with aqueous solution containing at least 0.5% by weight of mixture (A) from 5 to 95% by weight of at least one alkoxylated alcohol, carboxylic acid, alkyl phenol, or nonionic phosphate ester having in each case an alkyl or alkenyl group from 6 to 22 carbon atoms and from 1 to 20 ethylene oxide group, and (B) from 95 to 5% by weight of at least one ethylolamide of the formula I



Formula I

of the drawings wherein R is a saturated alkyl group having from 5 to 17 carbon atoms and x and y are each chosen from 0 and integers from 1 to 12, such that the average value of (x and y) is from 1 to 12 dispersed in water, moving the solution relative to the surface sufficiently to dislodge and disperse the oil and separating the solution containing the dispersed oil from the surface.

Compl. Specn. 17 pages.

Drg. 1 sheet.

OPPOSITION PROCEEDINGS

(1)

The opposition entered by Elpro International Limited to the grant of a patent on the application No. 151434 as notified in the Gazette of India, Part-III, Section 2 dated the 26th November, 1983 has been dismissed and a patent has been ordered to be sealed on the application.

(2)

An opposition has been entered by Wimco Limited to the grant of a patent on application No. 158011 made by C. H. Krishnamoorthy.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

The claim made by Rohm & Hans Company under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 153404 in their name has been allowed.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

(1)

152977	152978	152979	152980	152981	152982	152983
152984	152985	152986	152987	152988	152989	152990
152991	152992	152993	152994	152995	152996	152997
152998	152999	153000	153001	153002	153003	153004
153005	153006	153007	153008	153009	153010	153011
153012	153013	153014	153015	153016	153017	153018
153019	153020	153021	153022	153023	153024	153025
153026	153027	153028	153029	153030	153031	153032
153033	153034	153035	153036			

PATENTS SEALED

150591	155437	155833	155835	155844	156001	156008
156045	156062	156063	156075	156080	156120	156133
156234	156254	156255	156285	156399	156408	156467
156481	156482	156499	156505	156506	156547	156645
156691	156912	156920	156922	156926	156929	156930
156933	156935	156947	156981	157033	157035	157093
157202	157203	157212				

AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

Notice is hereby given that Franz Plasser Bahnbaumaschinen Industriegesellschaft m.b.H., of Johannesgasse 3, Vienna-1, Austria, an Austrian Company have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of his application for Patent No. 149042 for "A travelling welding machine for welding the two abutting ends of rails of a railway track." The amendments are by way of correction. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested

in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within the one month from the date of filing the said notice.

(2)

Notice is hereby given that Kumiai Chemical Industry Company Ltd., a company organised and existing under the laws of Japan, of 4-26, Ikenohata 1-Chome, Taitoh-ku, Tokyo, Japan have made an application Under Section 57 of the Patents Act, 1970 for amendment of drawings of their Patent Application No. 155096 for "Herbicidal Composition". The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(3)

The amendment proposed by Societe D'Etudes Scientifiques Et Industrielles De L'ILE-DE-France in respect of Patent application No. 157591 as advertised in Part III, Section 2 of the Gazette of India, dated the 14th June, 1986 has been allowed.

RENEWAL FEES PAID

138025	138060	139619	139804	140276	140350	140881
140868	140964	140999	141071	141456	141605	141676
141816	141952	142080	142576	142633	142648	143438
143682	143791	144180	144690	145151	145353	145385
146196	146312	146410	146501	146563	147542	147581
147650	147911	148224	148394	149220	149422	149719
150128	150147	150307	150499	150743	150997	151112
151232	151702	151961	152278	152292	152343	152596
152660	152703	152888	153092	153141	153345	153402
153454	153583	153649	153736	153977	154036	154084
154099	154201	154526	154539	154540	154589	154645
154884	155391	155506	155557	155564	155567	155654
155822	155990	156059	156448	156509	156695	156722

CESSATION OF PATENTS

141975 150966 154080 154923 155257.

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 139888 dated the 3rd April, 1974 made by Council of Scientific & Industrial Research on the 5th September, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 16th August, 1986 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144768 granted to L. T. C. Limited for an invention relating to "Process and device for the production of tobacco smoke or general purpose filters."

The patent ceased on the 13th October, 1985 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7-4-1987 under Rule 69 of the Patent Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 146632 granted to Council of Scientific & Industrial Research for an invention relating to "a process for preparation of tertiary alkyl esters from the corresponding halides".

The patent ceased on the 3rd November, 1985 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 149971 granted to Kumarasamy Sankaran for an invention relating to "a device for grinding pulverising and/or dehulling food grains."

The patent ceased on the 23rd September, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 151570 granted to Madhusudan Hiralal Desai for an invention relating to "improvements in or relating to submersible electric motors".

The patent ceased on the 15th January, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154127 granted to Outokumpu Oy for an invention relating to "an improved process for recovering separately phosphate and carbonate minerals from phosphate carbonate-silicate ores or concentrates".

The patent ceased on the 22nd November, 1985 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(7)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154170 granted to Michael John Pook for an invention relating to "a sealing ring for imparting a sealing between two fluid conveying pipes".

The patent ceased on the 5th May, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(8)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154325 granted to Michael John Pook for an invention relating to "a pipe capable of being coupled to a like pipe".

The patent ceased on the 9th March, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(9)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155152 granted to Michael John Pook for an invention relating to "pipe coupling".

The patent ceased on the 18th June, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(10)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155153 granted to Michael John Pook for an invention relating to "pipe coupling".

The patent ceased on the 19th June, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 13th December, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 7th April, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF ASSIGNMENTS, LICENCES ETC U/Sec. 63 OF THE DESIGN ACT, 1911

Assignments, licences or other transaction affecting the interest of the original proprietors have been registered in the following cases. The number of each cases is followed by the names of the applicants for registration.

Nos.	Class	Name
152626	3	Jet King Electronics Ltd., 350, Lamington Road, Bombay-400 007, Maharashtra, India.
152887	3	
152888	3	
152897	3	
155859	3	
155860	3	
155861	3	

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157678. J. Mitra & Bros. Private Limited, 1411, Chiranjiv Tower, 43, Nehru Place, New Delhi-110 019, India, a Company incorporated under the Indian Companies Act. "Digital Lab System". 19th November, 1986.

Class 1. No. 157679. J. Mitra & Bros. Private Limited, 1411, Chiranjiv Tower, 43, Nehru Place, New Delhi-110 019, India a company incorporated under the Indian Companies Act. "Digital Temperature Controlled Lab System". 19th November, 1986.

Class 3. Nos. 156916 to 156939. Maxlok Polymer Ltd. (a Company incorporated under the Indian Companies Act 1957) whose address is 203, Bhandari House, A 35 & 36 Commercial Complex Dr. Mukherjee Nagar, Delhi-110 009, India. "Thermoplastic Sheet for Packing". 8th April, 1986.

Class 3. Nos. 157506, 157507, 157508, 157509. Naresh Pen CO., a Proprietorship Concern. "Ball Point Pen". 7th October, 1986.

Class 3. No. 157674. J. Mitra & Bros. Private Limited, 1411, Chiranjiv Tower, 43, Nehru Place, New Delhi-110 019, India, a company incorporated under the Indian Companies Act. "Digital Temperature controlled Lab System". 19th November, 1986.

Class 3. No. 157677. J. Mitra & Bros. Private Limited, 1411, Chiranjiv Tower, 43, Nehru Place, New Delhi-110 019, India, a company incorporated under the Indian Companies Act. "Digital Lab System". 19th November, 1986.

Class 4. No. 157676. J. Mitra & Bros. Private Limited, 1411, Chiranjiv Tower, 43, Nehru Place, New Delhi-110 019, India, a company incorporated under the Indian Companies Act. "Digital Lab System". 19th November, 1986.

Class 4. No. 157675. J. Mitra & Bros. Private Limited, 1411, Chiranjiv Tower, 43, Nehru Place, New Delhi-110 019, India, a company incorporated under the Indian Companies Act. "Digital Temperature Controlled Lab System". 19th November, 1986.

Extn. of Copyright for the Second Period of five years.

Nos. 150486, 150788, 156030, 156095. Class-1.

Nos. 155306, 150922, 155318, 157031. Class-3.

Extn. of Copyright for the Second Period of five years.

Nos. 156030, 156095. Class-1.

Nos. 155306, 155318, 157031. Class-3.

R. A. ACHARYA
Controller General of Patents, Designs
and Trade Marks.

